

Applicants: Schu et al.
Serial No. 10/067,570
Page 5

REMARKS

Claims 21-24 are herewith canceled without prejudice or disclaimer so claims 1-24 stand canceled from the present application matter thereof and claims 25-34 are pending examination on the merits.

Claims 25 and 31-33 are herewith amended, no claims are canceled, and no new claims are added.

Applicants respectfully request entry and favorable consideration of the amendments and remarks presented herein in advance of examination of the application pursuant to the Request for Continued Examination (RCE) filed herewith.

Claim Rejections Under 35 U.S.C. §112

Claims 25-34 stand rejected under 35 U.S.C. §112, second paragraph, as being indefinite for use of the term "independently." The Examiner asserts that the term (present only in claim 25) is vague since the scope and bounds of "independently" can not be determined.

In the instant Advisory Action the Examiner has provided additional support and a suggestion for dealing with the presence of the term "independently" and Applicants herewith adopt the suggestion with amendment to claim 25. The Examiner also suggested an amendment to claim 33 which was also adopted by the Applicants via amendment to said claim 33.

Claims 31, 32 and 33 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite.

Specifically claim 31 is asserted to be incomplete for omitting structure cooperative relationship between elements. Applicants herewith amend claim 31 to recite said relationship and thus the ground of rejection has been overcome.

Claim 32 is alleged to be incomplete for omitting an element to sense "cardiac signals." Applicants herewith delete the allegedly incomplete reference to cardiac signals and thus have overcome this aspect of the rejection.

Applicants: Schu et al.
Serial No. 10/067,570
Page 6

Claim Rejections Under 35 U.S.C. §103

Claims 25-34 stand rejected under 35 U.S.C. §103(a) as being unpatentable over a single reference; namely, U.S. Pat. No. 4,202,341 to Blaser (Blaser).

Applicants respectfully traverse the rejection.

According to the Examiner, Blaser discloses the claimed invention "except for the operating system being at least one integrated circuit" and "except for the sensor being electrodes, an activity sensor, or a blood pressure, temperature, pH, or gas concentration sensor." The Examiner concluded, however, that it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system disclosed by Blaser, to include the missing elements.

However, Applicants assert that inspection of Blaser reveals that Blaser is devoid of any mention or use of the terms "sensor," "sense," "sensing," and that Blaser describes only traditional cardiac pacing and sensing via electrodes. Furthermore, Blaser is devoid of any discussion or description of implantable medical devices other than a pacemaker. Thus, the pending claims cannot fairly be deemed obvious over Blaser in that Blaser lacks the very elements claimed.

Nevertheless, according to the Examiner it was known in the art "that pacemakers have circuits and operating systems be at least one integrated circuit to reduce power consumption, size, and capacitance" and "that pacer systems use a sensor being electrodes to provide a bi-polar, localized signal from the particular organ so as not to receive interference from other signals in the body and since it was known in the art that pacer systems use an activity sensor or a blood pressure, temperature, pH, or gas concentration sensor to provide an alternate conventional sensor that senses the heart beating, a sensor that can be located in a different part of the body, and/or a signal to the pacer system allow the system to determine when cardiac therapy is needed.

In general, with respect to 35 U.S.C. § 103, Applicants assert that in connection with combining references to support an assertion of obviousness, it

Applicants: Schu et al.
Serial No. 10/067,570
Page 7

is well established that the Examiner bears the burden of establishing a *prima facie* case of obviousness. In re Oetiker, 24 USPQ2d 1443, 1445 (Fed. Cir. 1992). In doing so, the Examiner must determine whether the prior art provides a "teaching or suggestion to one of ordinary skill in the art to make the changes that would produce" the claimed invention. In re Chu, 36 USPQ2d 1089, 1094 (Fed. Cir. 1995). A *prima facie* case of obviousness is established only when this burden is met.

The burden is still on the Examiner even when the Examiner relies upon a single reference. "Even when obviousness is based on a single prior art reference, there must be a showing of a suggestion or motivation to modify the teachings of that reference." In re Kotzab, 55 USPQ2d 1313, 1316-17 (Fed. Cir. 2000). (Emphasis added.)

In the case of In re Lee, 61 USPQ2d 1430 (Fed. Cir. 2002), the Federal Circuit stated: "This factual question of motivation is material to patentability, and [can] not be resolved on subjective belief and unknown authority." Id. at 1434. Determination of patentability must be based on evidence, id. at 1434, and the Examiner provided none: no references pertaining to physiologic sensor signals were cited, no official notice was taken, no evidence of any kind was presented other than the conclusory statement that the claimed limitations "are well known in the art." The Examiner's failure to present an evidentiary basis for the decision is clearly a legal error. Id. Assertions such as "common knowledge and common sense," even if assumed to derive from the Examiner's expertise, are not evidence, and conclusory statements do not fulfill the Examiner's obligation to make an evidentiary record. Id. at 1434-35; In re Dembiczak, 50 USPQ2d 1614, 1617 (Fed. Cir. 1999).

If indeed the elements were known in the art, then the Examiner ought to present evidence to support that conclusion. In re Lee, 61 USPQ2d at 1435 ("[W]hen they rely on what they assert to be general knowledge to negate patentability, that knowledge must be articulated and placed on the record."). The failure to do so renders the Examiner's rejection arbitrary, capricious and

Applicants: Schu et al.
Serial No. 10/067,570
Page 8

unreasonable. See id. at 1434. The Examiner may not arbitrarily, capriciously and unreasonably deny a claim by a mere declaration of obviousness without a supporting evidentiary record.

As previously noted, Blaser discloses merely use of a non-integrated circuit including at least one monostable multivibrator for a pacemaker circuit.

It would appear the rejection is simply an attempt by the Examiner to reject the claimed invention without even offering any specific reference which, if combined, might at least include the recited, individual claim elements.

Applicants respectfully suggest that the Examiner has formulated the instant rejection without consideration of the claims as a whole. As reiterated by the CAFC previously, such a practice is not permissible.

In making the assessment of differences, section 103 specifically requires consideration of the claimed invention "as a whole." Inventions typically are new combinations of existing principles or features. Envtl. Designs, Ltd. v. Union Oil Co., 713 F.2d 693, 698 (Fed. Cir. 1983) (noting that "virtually all [inventions] are combinations of old elements."). The "as a whole" instruction in title 35 prevents evaluation of the invention part by part. Without this important requirement, an obviousness assessment might break an invention into its component parts (A + B + C), then find a prior art reference containing A, another containing B, and another containing C, and on that basis alone declare the invention obvious. This form of hindsight reasoning, using the invention as a roadmap to find its prior art components, would discount the value of combining various existing features or principles in a new way to achieve a new result – often the very definition of invention.

Section 103 precludes this hindsight discounting of the value of new combinations by requiring assessment of the invention as a whole. This court has provided further assurance of an "as a whole" assessment of the invention under § 103 by requiring a showing that an artisan of ordinary skill in the art at the time of invention, confronted by the same problems as the inventor and with no knowledge of the claimed invention, would select the various elements from the prior art and combine them in the claimed manner. In other words, the examiner or court must show some suggestion or motivation, before

Applicants: Schu et al.
Serial No. 10/067,570
Page 9

the invention itself, to make the new combination. See In re Rouffet, 149 F.3d 1350, 1355-56 (Fed. Cir. 1998).

Ruiz v. A.B. Chance Co., 357 F.3d 1270, 1275 (Fed. Cir. 2004).

Applicants respectfully assert that the Examiner has failed to locate even a series of references (e.g., discrete references such as the "A + B + C" example cited above) and as such the claimed invention should be allowed. For the above and foregoing reasons, the Examiner has failed to establish a *prima facie* case for non-patentability of Applicants' pending claims under 35 U.S.C. § 103(a). Withdrawal of this ground of rejection is hereby earnestly and respectfully requested. As the present claims are not taught or suggested by the references of record, alone or in combination, Applicant respectfully requests that the Examiner issue a Notice of Allowance in due course for the pending claims.

Conclusion

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned attorney to attend to these matters.

Respectfully submitted,

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